Exercise 19-1

1. Open the MicroStation file:
   t:\br-proj\a_geopak\d2\j2p0300\data\pattern_shape_j2p0300.dgn.
   The yellow lines on level 22 will be used as pattern lines for cross sections for hydraulic analysis. A GEOPAK XS Report will be created, which can be imported into HEC RAS.

2. Open the project **t:\br-proj\a_geopak\d2\j2p0300\project\j2p0300.prj**.
   Enter the project as user **userc** and go into **Road**.

3. Copy the J2P0300 working alignment to **Water** and enter that working alignment.

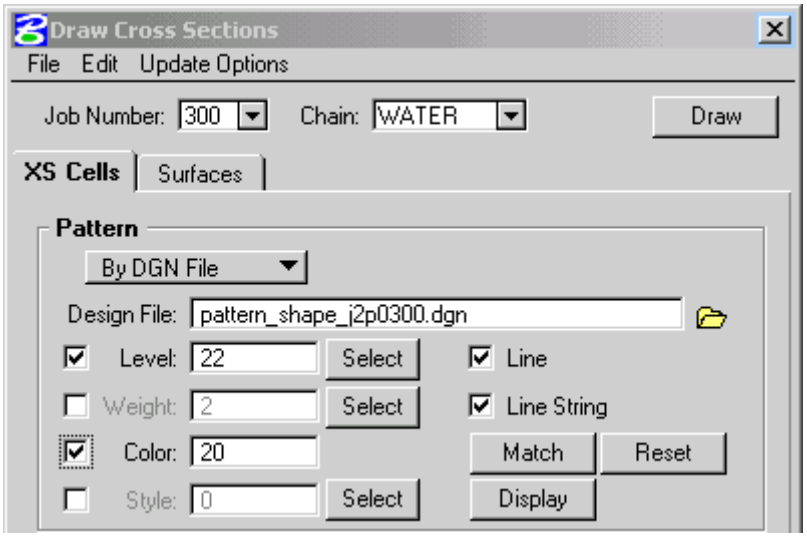
4. Enter the Working Alignment Definition for **Water** and change the following:

Section	Item	Value
Plan View	**Chain:**	**WATER**
Pattern	**Design File:**	**pattern_shape_j2p0300.dgn**
	Levels	**22**
	Weights	**2**
	Colors	**20**

5. Open the MicroStation file **t:\br-proj\a_geopak\d2\j2p0300\data\xs_water_j2p0300.dgn**.

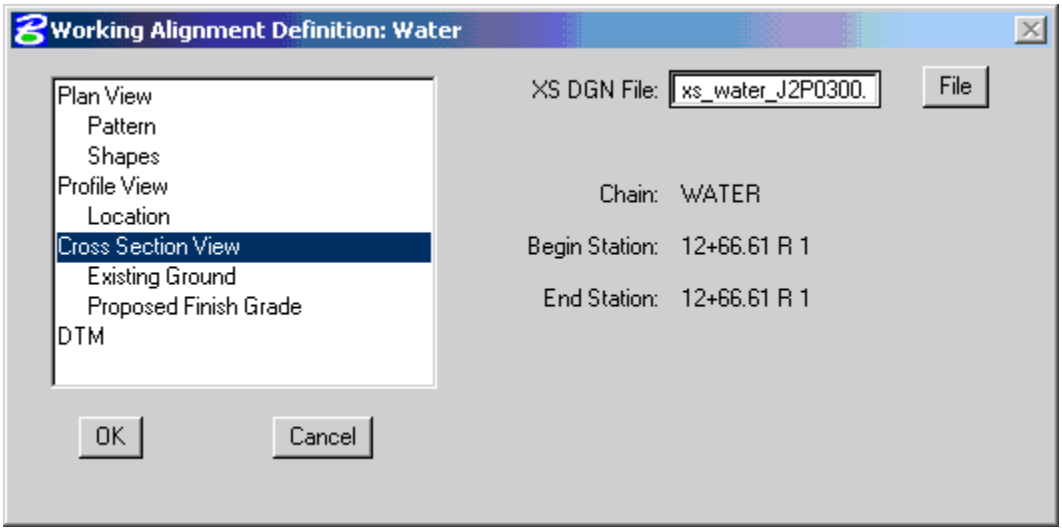
6. Choose **Existing Ground Cross Sections** from the **Project Manager** dialog.

   Copy the **MoDOT** run to **Water** and enter that run. Set the **XS Cells tab** as shown below and have the **J2P0300.TIN** as the only one listed under the **Surfaces tab**.



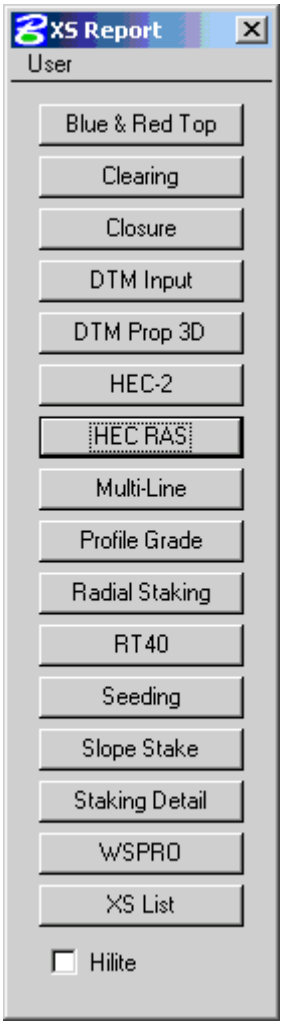
   Select **Draw** to draw the cross section and **Save** the MicroStation file.

7. Set **xs_water_j2p0300.dgn** as the **XS DGN** in the Cross Section View section of the Water **Working Alignment Definition** as shown below.

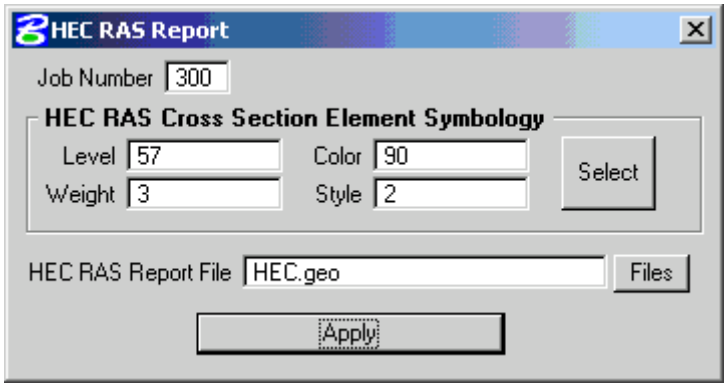


8. Choose **Reports and XS Quantities** from the **Project Manager** dialog.

This will bring up the XS Report dialog shown to the right. Select the **HEC RAS** report.



The dialog shown below will appear. Enter the information as shown:



Select **Apply** to generate the report.

The report will be written to the working directory. Open the report in Ultra Edit. It is:

t:\br-proj\a_geopak\d2\j2p0300\data\HEC.geo.

To import the data into HEC RAS, start the HEC RAS project and go to **Edit > Geometric Data…** in HEC RAS. In the Geometric Data dialog, go to **File > Import Geometry Data > GIS Format…** and load the HEC.geo report.